



North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor
William G. Ross Jr., Secretary

September 18, 2008

Mr. Don Adams
Alleghany County Manager
P.O. Box 366
Sparta, NC 28675

Re: *Assessment Monitoring Report*
Alleghany County Landfill, Permit #03-02

Dear Mr. Adams,

The Solid Waste Section has reviewed the *July 28, 2008 Assessment Monitoring Report* submitted on behalf of Alleghany County by Applied Resource Management, P.C. for the unlined closed Alleghany County Landfill. Volatile organic compounds (VOCs) exceeding the North Carolina 2L Groundwater Standards and Groundwater Protection Standards are being detected at the landfill. As a result, pursuant to a letter sent to Alleghany County on April 10, 2008 by the Solid Waste Section, Alleghany County installed one Type II groundwater monitoring well to delineate the groundwater downgradient of the landfill (MW-5), obtained top of casing elevations for all groundwater monitoring wells at the landfill to determine groundwater elevations and groundwater flow direction, sampled potable wells within the immediate 500 feet from the edge of waste, and conducted methane monitoring. Due to the results of the July 2008 semiannual groundwater monitoring event, the May 2008 sampling of five potable wells, and the confirmation of the groundwater flow direction, no additional groundwater assessment will be required at this time. Please continue to sample the groundwater on a semiannual basis, and please continue to sample the five potable wells on an annual basis for Appendix I constituents. If volatile organic compounds are being detected in MW-5 adjacent to Vile Creek, then additional assessment and corrective action will be necessary in accordance with 15A NCAC 2L .0106 (d).

Pursuant to the September 1995 Closure Letter and the Solid Waste Management Rules 15A NCAC 13B .0503(2)(a), please implement a routine methane monitoring program at the landfill on a quarterly basis. The County should maintain the quarterly methane records in the facility operating record. The quarterly methane records should consist of a table with the date, time, barometric pressure, well number, depth of well, depth to water, % lower explosive limit (LEL), and % methane by volume. Please submit the methane monitoring records to the Solid Waste Section only if there is a concentration that attains or exceeds the LEL at the property boundary or 25% (1.25% by volume) of the limit for gases in structures on site. The LEL for methane is 5%. Pursuant to our phone conversation on August 25, 2008, please conduct the next methane monitoring event to coincide with the next groundwater semiannual event scheduled for December 2008. After the next groundwater monitoring event is completed, please begin conducting methane monitoring on a quarterly basis.


In addition, each semiannual groundwater monitoring report must include the following:

1. Environmental Monitoring Data Form as a cover sheet:
<http://www.wastenotnc.org/swhome/EnvMonitoring/NCEnvMonRptForm.pdf>
2. Copy of original laboratory results.
3. Table of detections and exceedances of 2L and groundwater protection standards.

4. Electronic files on CD or sent by email. These files should include any text, tables, and figures of the report as a Portable Document Format (PDF) file and the laboratory data as an excel file following the format of the updated Electronic Data Deliverable (EDD) template at http://www.wastenotnc.org/swhome/enviro_monitoring.asp.

Please call me at (919) 508-8500 if you have any questions or concerns regarding this letter. Thank you for your continued cooperation with this matter.

Sincerely,



Jaclynne Drummond
Hydrogeologist
Environmental Compliance
Solid Waste Section

cc: Joe Zuncich, Applied Resource Management
Mark Poindexter, Field Operations Supervisor
Jason Watkins, Central District Supervisor
John Patrone, Environmental Specialist
Solid Waste Central Files